

FIG. 1

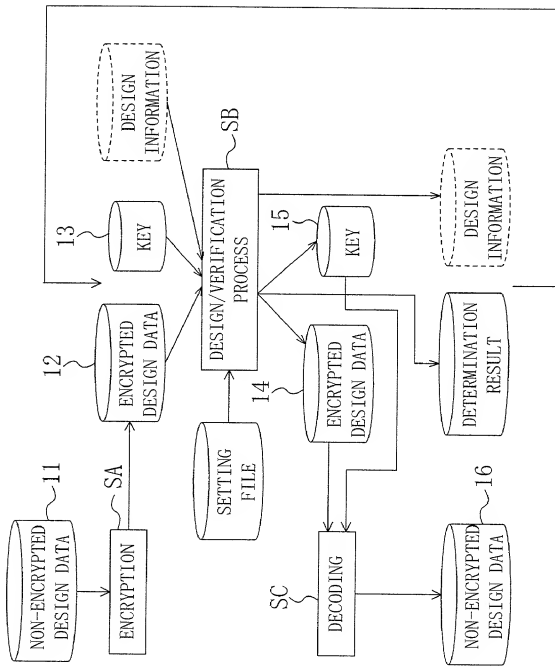


FIG. 2A

A

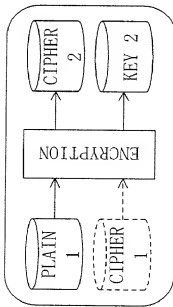


FIG. 2B

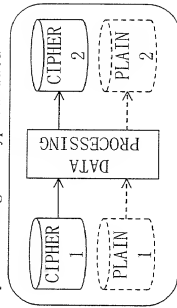
B 1 process of directly  
processing encrypted data

FIG. 2C

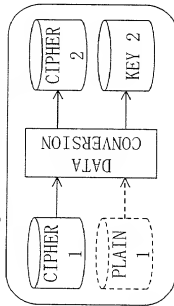
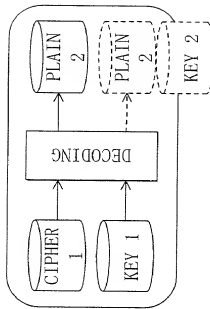
B 2 data conversion conducted  
with ciphers maintained

FIG. 2D

C



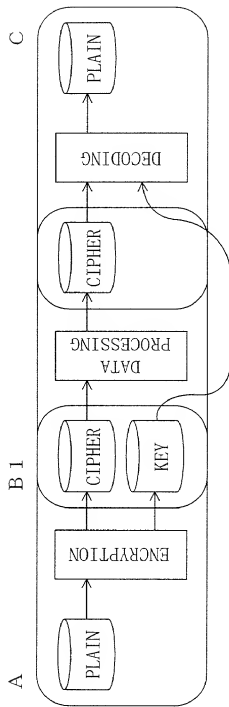


FIG. 3A

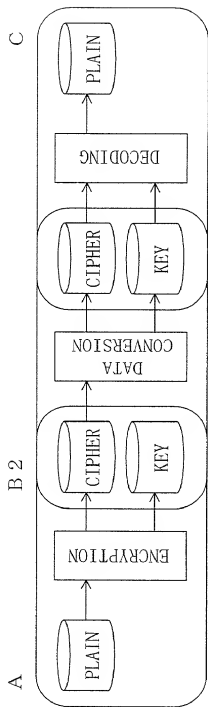


FIG. 3B

FIG. 4

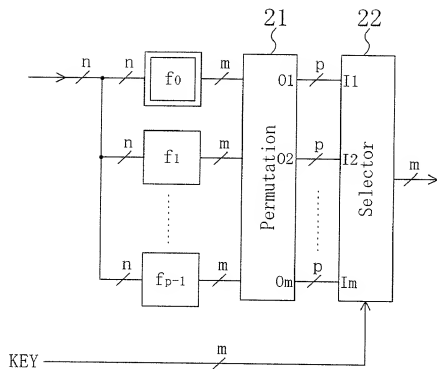


FIG. 5A  
ORIGINAL CIRCUIT  
f<sub>0</sub>

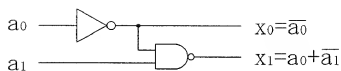


FIG. 5B  
DUMMY CIRCUIT  
f<sub>1</sub>

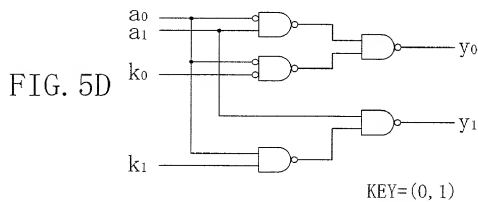
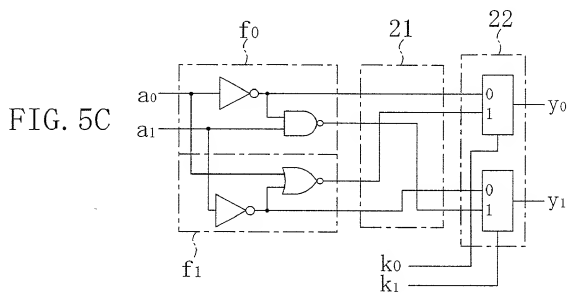
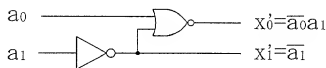


FIG. 6

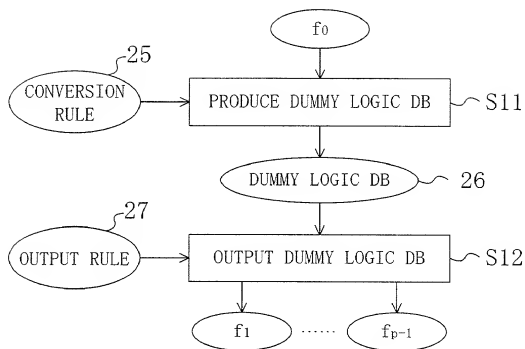


FIG. 7A

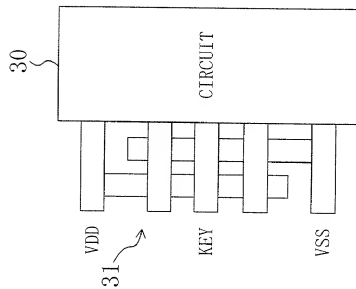


FIG. 7B

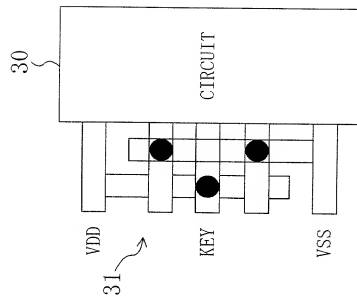


FIG. 8

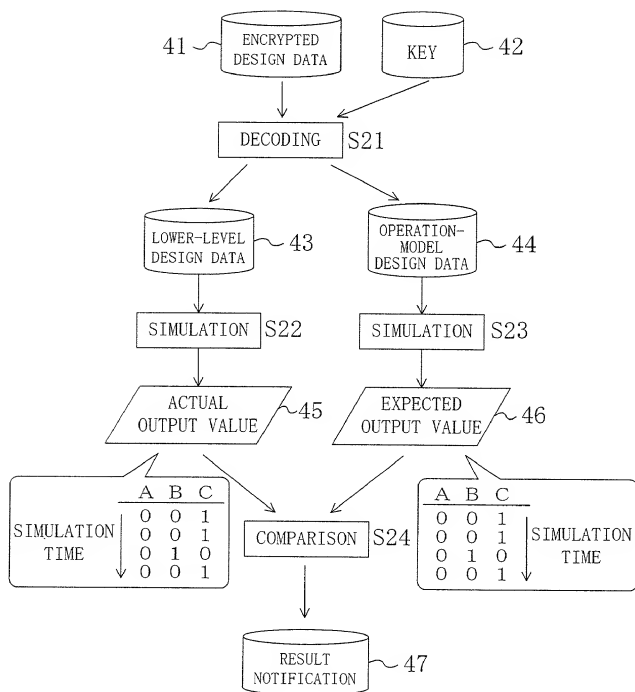




FIG. 9

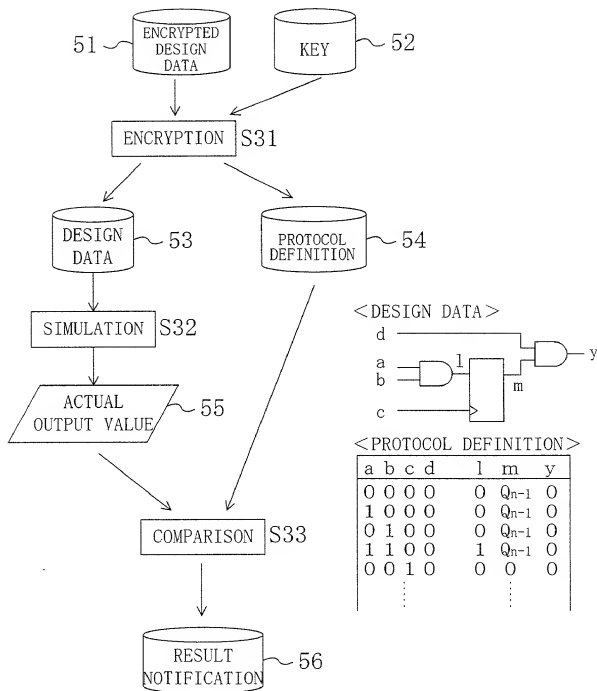


FIG. 10

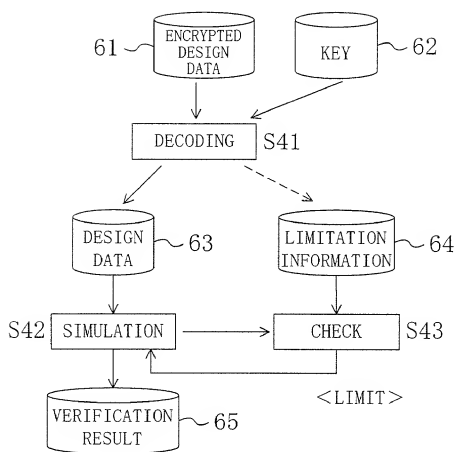


FIG. 11A

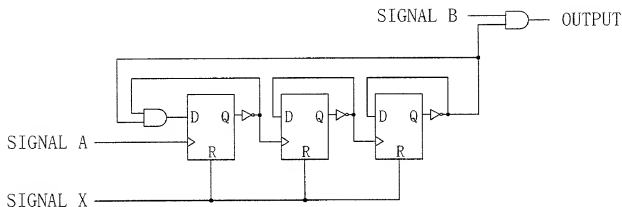
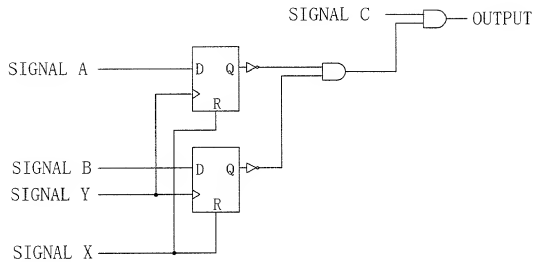


FIG. 11B

X	NUMBER OF TIMES A CHANGES	B	OUTPUT
0	1	0	0
		1	1
			} OK
0	2	0	0
		1	1
			} OK
	...		...
0	7	0	0
		1	1
			} OK
0	8	0	0
		1	0
			} NG
0	9	0	0
		1	0
			} NG
	...		...

# FIG. 12A



# FIG. 12B

X	Y	A	B	C	OUTPUT
0	$\uparrow$	0	0	0	0
		0	0	1	1
<hr/>					
		0	1	0	0
		0	1	1	0
		1	0	0	0
		1	0	1	0
		1	1	0	0
		1	1	1	0

FIG. 13

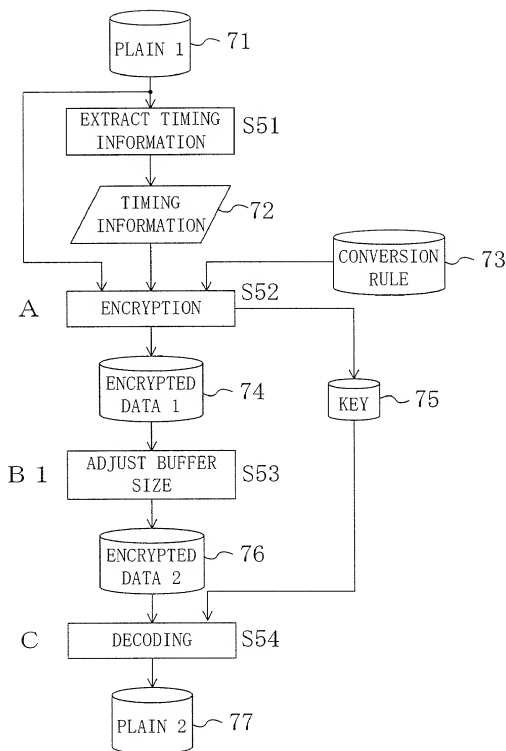


FIG. 14A



FIG. 14B

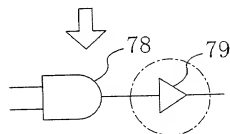


FIG. 14C

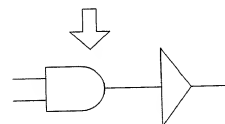


FIG. 14D

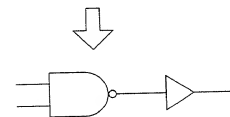
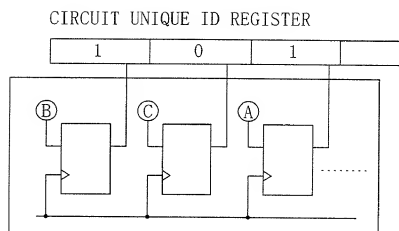


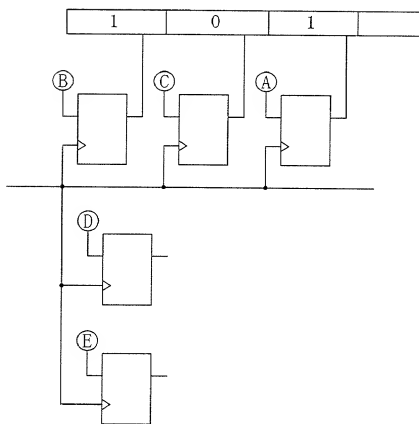
FIG. 15



$A = 1$   
 $B = 1$   
 $C = 0$

} UNIQUE PARAMETER

FIG. 16



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